# Office of the Associate Administrator for Commercial Space Transportation

# Financial Responsibility Requirements as Determined by the Maximum Probable Loss (MPL) Process

As of November 1, 2000

# ACTIVE LICENSES 1

#### Orbital Launches Launch Operator

Vehicle Company	Year	Launch Site	U.S. Government Property (\$M)		Third Party (\$M)	
Atlas II/IIA			Pre-flight:	\$44	Pre-flight:	\$45
Lockheed Martin	2000	CCAFS	Flight:	\$53	Flight:	\$113
Atlas IIAS			Pre-flight:	\$55	Pre-flight:	\$45
Lockheed Martin	2000	CCAFS	Flight:	\$78	Flight:	\$135
Atlas IIIA & IIIB			Pre-flight:	\$44	Pre-flight:	\$30
Lockheed Martin	2000	CCAFS	Flight:	\$53	Flight:	\$149
Delta II			Pre-flight:	\$34	Pre-flight:	\$24
McDonnell Douglas	2000	CCAFS	Flight:	\$45	Flight:	\$76.5
Delta III			Pre-flight:	\$29	Pre-flight:	\$24
McDonnell Douglas	2000	CCAFS	Flight:	\$56	Flight:	\$126
Delta II			Pre-flight:	\$42	Pre-flight:	\$10
McDonnell Douglas	1996	VAFB	Flight:	\$48.8	Flight:	\$40
Pegasus			Pre-flight:	\$3	Pre-flight:	\$10
Orbital Sciences	1994	VAFB	Flight:	\$1	Flight:	\$28
Pegasus			Pre-flight:	\$1	Pre-flight:	\$10
Orbital Sciences	1997	CCAFS	Flight:	\$1	Flight:	\$37.5
Pegasus			Pre-flight:	\$1	Pre-flight:	\$10
Orbital Sciences	1997	WFF	Flight:	\$1	Flight:	\$43.5
Taurus			Pre-flight:	\$27.2	Pre-flight:	\$10
Orbital Sciences	1996	VAFB	Flight:	\$2.3	Flight:	\$40
Pegasus			Pre-flight:	\$27	Pre-flight:	\$10
Orbital Sciences	1999	Kwajalein	Flight:	\$1	Flight:	\$57

.

<sup>&</sup>lt;sup>1</sup> For all tables, the date shown in the Year column is the date of the MPL study. The dollar values shown for U.S. Government property and Third-party losses are as assigned in the applicable license orders. Those values are periodically and routinely reassessed over time. During such a reassessment, if the MPL values are confirmed to remain valid, the report's date is not changed. If the values are revised and new license orders issued, the date of the report will also be revised.

# ACTIVE LICENSE 2

#### Orbital Launches Launch Specific

Vehicle Company	Year	Launch Site	U.S. Government Property (\$M)	Third Party (\$M)
Zenit – 3SL Boeing Sea Launch	2000	Pacific Ocean	\$Zero	\$10

#### **ACTIVE LICENSE**

#### Sub-Orbital Launches Launch Specific

Vehicle Company	Year	Launch Site	U.S. Government Property (\$M)	Third Party (\$)
Tachyon Interorbital Systems	2000	Western Range	\$Zero	\$250K

purposes of establishing financial responsibility requirements based on the MPL. Thus, as signed dollar values for U.S. Government and Third-party losses were the higher of the values determined for each phase – pre-flight and flight.

<sup>&</sup>lt;sup>2</sup> Past practice for launch specific licenses was not to discriminate between pre-flight and flight phases for the purposes of establishing financial responsibility requirements based on the MPI. Thus, as signed dollar value

## **INACTIVE OR EXPIRED LICENSES**

#### Orbital Launches Launch Operator

Vehicle Company	Year	Launch Site	U.S. Government Property (\$M)		Third Party (\$M)	
Atlas			Pre-flight:	\$60	Pre-flight:	\$30
Lockheed Martin	1989	CCAFS	Flight:	\$75	Flight:	\$164
Delta			Pre-flight:	\$60	Pre-flight:	\$30
McDonnell Douglas	1989	CCAFS	Flight:	\$80	Flight:	\$164
Athena-1			Pre-flight:	\$10	Pre-flight:	\$10
Lockheed Martin	1996	VAFB	Flight:	\$27	Flight:	\$117
Athena-2			Pre-flight:	\$20	Pre-flight:	\$10
Lockheed Martin	1998	VAFB	Flight:	\$72	Flight:	\$117

# **INACTIVE or EXPIRED LICENSES**

#### Orbital Launches Launch Specific

Vehicle Company	Year	Launch Site	U.S. Government Property (\$M)	Third Party (\$M)
Conestoga EER Systems	1994	WFF	\$73.5	\$13
Conestoga EER Systems	1995	WFF	\$88	\$13
Delta 7920-10 McDonnell Douglas	1993	VAFB	\$48.8	\$41
Athena-1 Lockheed Martin	1996	VAFB	\$27	\$117
Athena-1 Lockheed Martin	1997	SFA	\$32	\$21
Athena-2 Lockheed Martin	1997	SFA	\$81.2	\$36
Pegasus Orbital Sciences	1992	CCAFS	\$15	\$15
Pegasus XL Orbital Sciences	1997	Spain	\$Zero	\$48
Scout LTV	1990	WFF	\$21.6	\$10
Scout LTV	1990	VAFB	\$1.6	\$10
Titan Lockheed Martin	1989	CCAFS	\$80	\$215

# **INACTIVE or EXPIRED LICENSES**

#### Sub-Orbital Launches Launch Specific

Vehicle Company	Year	Launch Site	U.S. Government Property (\$M)	Third Party (\$M)	
Black Brant IX Conatec	1988	WSMR	\$1	\$10	
Prospector Orbital Sciences	1990	CCAFS	\$1	\$12.5	
SMLV AMROC	1989	VAFB	\$1	\$12	
Starfire SSI	1989	WSMR	\$1	\$10	
Starfire EER Systems	1992	WSMR	\$2.5	\$10	
Starfire Black Brant Class EER Systems	1994	WSMR	\$3	\$10	
Talos Castor I Orbital Sciences	1991	KTF	\$0.3	\$10	
SASSY Flea Society for Amateur Scientists	2000	VAFB	\$Zero	\$3	

## **INACTIVE OR EXPIRED LICENSE**

#### Sub-Orbital Launches Launch Operator

Vehicle Company	Year	Launch Site	U.S. Government Property (\$M)		Third Party (\$M)	
Aries			Pre-flight:	\$1	Pre-flight:	\$10
Orbital Sciences	1991	WSMR	Flight:	\$1	Flight:	\$10

#### **ACRONYMS**

AMROC American Rocket Corporation

CCAFS Cape Canaveral Air Force Station, Florida

KTF Kauai Test Facility, Hawaii LTV Ling Temco Vought SFA Spaceport Florida

SMLV Single Module Launch Vehicle SSI Space Services, Incorporated

VAFB Vandenberg Air Force Base, California
WFF Wallops Flight Facility, Virginia

WSMR White Sands Missile Range, New Mexico